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1 Trace-driven Analysis of Migration-based Gang Scheduling Policies Computers

Sanjeev Setia

August 1997 **ICPP '97:** Proceedings of the international Conference on Para
Publisher: IEEE Computer Society

Full text available: Publisher Site Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Gang scheduling is a job scheduling policy for parallel computers that co elements of space-sharing and time-sharing. In this paper, we analyze t of gang scheduling policies that allow the remapping of an executing job

Keywords: Job scheduling, gang-scheduling, parallel supercomputers, evaluation, trace-driven simulation.

2 Parallel trace-driven simulation of packet-switched multiplexer under scheduling policy

Yi-Bing Lin

September 1993 **Information Processing Letters** , Volume 47 Issue 4
Publisher: Elsevier North-Holland, Inc.

Additional Information: full citation, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Keywords: analysis of algorithms, parallel algorithms

3 A Comparative Study of Real Workload Traces and Synthetic Workl Parallel Job Scheduling

Virginia Mary Lo, Jens Mache, Kurt J. Windisch

March 1998 **IPPS/ SPDP '98:** Proceedings of the Workshop on Job Schedul for Parallel Processing
Publisher: Springer-Verlag

Additional Information: full citation, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

4 An Adaptive Load Balancer for Multiprocessor Routers

W. Shi, M. H. Macgregor, P. Gburzynski

March 2006 **Simulation** , Volume 82 Issue 3

Publisher: Society for Computer Simulation International
Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

By investigating flow-level characteristics of Internet traffic, the authors trace the root of load imbalance in hash-based load-splitting schemes. T popularity distributions as Zipf-like and prove that for typical Internet ..

Keywords: Workload modeling, hashing, load balancing, parallel forwa

5 Development of scheduling strategies with Genetic Fuzzy systems
Carsten Franke, Frank Hoffmann, Joachim Lepping, Uwe Schwiegelshohn
January 2008 **Applied Soft Computing** , Volume 8 Issue 1
Publisher: Elsevier Science Publishers B. V.
Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

This paper presents a methodology for automatically generating online s strategies for a complex objective defined by a machine provider. To thi assume independent parallel jobs and multiple identical machines. The s algorithm ...

Keywords: Genetic Fuzzy system, Online scheduling, Scheduling algori development, Symbiotic Evolution

6 A multi-dimensional scheduling scheme in a Grid computing environ
B.T. Benjamin Khoo, Bharadwaj Veeravalli, Terence Hung, C. W. Simon Se
June 2007 **Journal of Parallel and Distributed Computing** , Volume 67 Issu
Publisher: Academic Press, Inc.
Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

In this paper, we propose a novel distributed resource-scheduling algori handling multiple resource requirements for jobs that arrive in a Grid co environment. In our proposed algorithm, referred to as multiple resourc

Keywords: Grid computing, Load distribution, Multiple resources, Paral time, Scheduling

7 Power-aware resource allocation in high-end systems via online simu
Barry Lawson, Evgenia Smirni
June 2005 **ICS '05:** Proceedings of the 19th annual international conferenc Supercomputing
Publisher: ACM
Full text available: Pdf (298.15 KB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 44, Citation C

Traditionally, scheduling in high-end parallel systems focuses on how to

average job waiting time and on how to maximize the overall system ut Despite the development of scheduling strategies that aim at maximizin utilization, ...

Keywords: online simulation, parallel workload characterization, perfor evaluation, power-aware scheduling, resource allocation

8 A scalable load balancer for forwarding internet traffic: exploiting flow burstiness

Weiguang Shi, Mike H. MacGregor, Pawel Gburzynski

October 2005 **ANCS '05:** Proceedings of the 2005 ACM symposium on Arch networking and communications systems

Publisher: ACM

Full text available: Pdf (339.44 KB) Additional Information: full citation, abstract, referen terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 57, Citation C

Packet scheduling in parallel forwarding systems is a hard problem. Two a scheduler that distributes incoming packets to multiple forwarding eng achieve high system utilization (by balancing the load evenly among the

Keywords: TCP, bursty traffic, hashing, load balancing, parallel forwarc

9 Very Long Instruction Word architectures and the ELI-512

Joseph A. Fisher

June 1983 **ISCA '83:** Proceedings of the 10th annual international symposi Computer architecture

Publisher: ACM

Full text available: Pdf (837.87 KB) Additional Information: full citation, abstract, referen terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 294, Citatio

By compiling ordinary scientific applications programs with a radical tecl trace scheduling, we are generating code for a parallel machine that wil programs faster than an equivalent sequential machine—we expect 10 t

Also published in:

June 1983 **SIGARCH Computer Architecture News** Volume 11 Issue 3

10 GrADSolve: a grid-based RPC system for parallel computing with ap scheduling

Sathish S. Vadhiyar, Jack J. Dongarra

June 2004 **Journal of Parallel and Distributed Computing** , Volume 64 Issu

Publisher: Academic Press, Inc.

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Although some existing Remote Procedure Call (RPC) systems provide s remote invocation of parallel applications, these RPC systems lack powe methodologies for the dynamic selection of resources for the execution

applications. ...

Keywords: RPC, application-level scheduling, data staging, execution t grADSolve, grid

11 Security-Aware Resource Allocation for Real-Time Parallel Jobs on H and Heterogeneous Clusters

Tao Xie, Xiao Qin

May 2008 **IEEE Transactions on Parallel and Distributed Systems** , Vol

Publisher: IEEE Press

Full text available: Publisher Site Additional Information: full citation, abstract, index te

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Security is increasingly becoming an important issue in the design of re applications, which are widely used in industry and academic organizati existing schedulers for real-time parallel jobs on clusters generally do n

Keywords: Scheduling and task partitioning, Real-time distributed

12 Parallel architectural simulations on shared-memory multiprocessors

Pavlos Konas

September 1994 Parallel architectural simulations on shared-memory multip

Publisher: University of Illinois at Urbana-Champaign

Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

The ever increasing size and complexity of computer systems made pos rapid advances in VLSI technology and computer architecture, have res simulations which require excessive amounts of processing power and n way to meet ...

13 Combining Parallel and Sequential Workloads

Remzi H. Arpaci, Amin M. Vahdat, Thomas E. Anderson, David A. Patterson

October 1994 Combining Parallel and Sequential Workloads

Publisher: University of California at Berkeley

Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

This paper examines the plausibility of using a network of workstations mixture of parallel and sequential jobs. Through trace-driven simulation identifies a number of results that should be of interest to NOW system

14 Parallelism analyzers for parallel discrete event simulation

Yi-Bing Lin

July 1992 **Transactions on Modeling and Computer Simulation (TOM/** Issue 3

Publisher: ACM

Full text available: Pdf (1.43 MB) Additional Information: full citation, abstract, referen terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 28, Citation (

Discrete event simulation is usually time consuming. Recently, there ha deal of interest in using parallel computers to speed up the simulation p the parallel simulation approach is applied, it is important to understanc

Keywords: discrete event simulation, event precedence graph, inheren parallel simulation

15 Automating runtime optimizations for parallel object-oriented progran
Sanjeev Krishnan
June 1996 Automating runtime optimizations for parallel object-oriented pr
Publisher: University of Illinois at Urbana-Champaign
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Software development for parallel computers has been recognized as or bottlenecks preventing their widespread use. In this thesis we examine complementary approaches for addressing the challenges of high perfor enhanced programmability ...

16 Disambiguation, Correctness and Flow-Analysis Issues for Trace Sc Compilers
Alexandru Nicolau
August 1984 Disambiguation, Correctness and Flow-Analysis Issues for Trac Compilers
Publisher: Cornell University
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Trace scheduling is a global compaction technique for transforming sequ into parallel code. When this investigation began, trace scheduling was and many serious questions of appropriateness and effectiveness neede

17 Improving Cluster Utilization through Set Based Allocation Policies
Brian D. Haymore
September 2001 **ICPPW '01:** Proceedings of the 2001 International Confere Processing Workshops
Publisher: IEEE Computer Society
Full text available: Publisher Site Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Abstract: While clusters have already proven themselves in the world of performance computing, some clusters are beginning to exhibit resourc due to increasing hardware diversity. Much of the success of clusters lie of ...

18 A Comparison of Workload Traces from Two Production Parallel Ma
K. Windisch, V. Lo, D. Feitelson, B. Moore, B. Nitzberg
March 1996 **FRONTIERS '96:** Proceedings of the 6th Symposium on the Fr Massively Parallel Computation
Publisher: IEEE Computer Society

Full text available: Publisher Site Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

The analysis of workload traces from real production parallel machines c variety of parallel processing research, providing a realistic basis for exp the management of resources over an entire workload. We analyze a fiv

19 Towards A Truly Concurrent Model for Processes Sharing Resource
Naiyong Jin, Jifeng He
September 2005 **SEFM '05:** Proceedings of the Third IEEE International Con Software Engineering and Formal Methods
Publisher: IEEE Computer Society
Full text available: Publisher Site Additional Information: full citation, abstract, index te

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Conventional theories of concurrency reduce parallel processes to seque Here, we propose a true concurrency trace model which takes variables processes as a whole and runs parallel processes as simultaneous updat ...

Keywords: Semantic Model, Resource Sharing, Trace Model

20 Performance Impact of Advance Reservations from the Grid on Back
Bo Li, Dongfeng Zhao
August 2007 **GCC '07: Proceedings of the Sixth International Conferei and Cooperative Computing (GCC 2007) - Volume 00** , Vo
Publisher: IEEE Computer Society
Full text available: Publisher Site Additional Information: full citation, abstract, index te

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

Advance Reservations are important to guarantee the Quality of Service However, the influence of AR from the Grid on local parallel schedulers i known. EASY backfill and Conservative backfill are two important paralle

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